
Curriculum Vitae

Xiaobing Zhou, Ph.D.
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Personal

Born November 8, 1983 in Bazhong, Sichuan, China. To be married with Miss Xiangfang LV.

Research Area

Effects of Nitrogen deposition on herb and microbial activity.

Nitrogen transformation in Biological soil crust

Education

- June, 2012 Ph.D. in Ecology. Advisor: Prof. Yuanming Zhang.
Xinjiang Institute of Ecology and Geography, CAS, Xingjiang, China
Dissertation title: Responses of herbaceous plant growth and microbial activities to simulated nitrogen deposition in Gurbantunggut Desert
- June, 2006 B.S. in Biology Science. Advisor: Prof. Tong Liu
Shihezi University, Xingjiang, China.
Dissertation title: Species diversity of vascular plants in Muosuowan region, southern edge of Gurbantunggut Desert.

Honors

- 2012 “Three Good Students Model” award; “Innovation Contribution” Award, CAS.
- 2011 “President's Fellowship”; “Three Good Students” award, CAS.
- 2010 “Three Good Students” award, CAS.
- 2009 “Three Good Students” award, CAS.
- 2008 “Three Good Students” award, CAS.

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- 2007 “Three Good Students” award, CAS.
- 2005 Second Rank Scholarship, Shihezi University.
- 2004 First Rank Scholarship, Shihezi University.
- 2003 Second Rank Scholarship, Shihezi University; Third Rank Award, Competition of English Test, Xinjiang.
- 2002 Third Rank Scholarship, Shihezi University.

Academic Research Experience

- 2014.5~ 2015.5 Visiting scholar in Ferran Garcia-Pichel lab.
- 2013~present Study on differences in nitrogen distribution and transformation among three biological soil crusts in Gurbantunggut Desert
- 2011~2012 Doctoral Graduate Research Program, study on responses of biomass allocation and community structure of herbaceous plants to nitrogen deposition, Xinjiang Institute of Ecology and Geography, CAS.
- 2010~2011 Doctoral Graduate Research Program, study on responses of soil microbial activity to nitrogen deposition, Xinjiang Institute of Ecology and Geography, CAS.
- 2008~2009 Doctoral Graduate Research Program, study on plant physiological responses to nitrogen deposition, Xinjiang Institute of Ecology and Geography, CAS.
- 2005~2006 Undergraduate Research Program, plant species diversity, Shihezi University

Research grant

- 2011~2013 National Natural Science Foundation of China
Title: Effects of simulated N deposition on herbaceous community’s composition and biomass allocation in Gurbantunggut Desert
Role: program director
- 2009~2013 National Basic Research Program
Title: Carbon cycle in saline-alkali soils of arid areas and its relationships with global change
Role: plant species diversity investigation and biomass measurement
- 2010~2012 Key Knowledge Innovation Project of the Chinese Academy of Sciences
Title: Restoration mechanism and technology based on biological soil crusts in

desert ecosystem.

Role: microbial activity analysis

Membership

Member of Xinjiang Botanical Society

Member of Xinjiang Society of Microbiology

Presentations

2013 Seasonal pattern of soil respiration and gradual changing effects of nitrogen addition in a soil of the Gurbantunggut Desert, Northwestern China. Annual Meeting of Ecological Society of China, NanChang, China.

Publications

1. **Zhou Xiaobing**, Zhang Yuanming, Ji Xuehua, Alison Downing, Marcelo Serpe. Combined effects of nitrogen deposition and water stress on growth and physiological responses of two annual desert plants in northwestern China. *Environmental and Experimental Botany*, 2011, 74, 1-8 (**IF=2.6**).
2. **Zhou Xiaobing**, Zhang Yuanming, Karl Niklas. Sensitivity of growth and biomass allocation patterns to increasing nitrogen: a comparison between ephemerals and annuals in the Gurbantunggut Desert, Northwestern China. *Annals of Botany*, 2014, 113, 501-511(**IF=3.4**).
3. Liu Xuejun, Duan Lei, Mo Jiangming, Du Enzai, Shen Jianlin, Lu Xiankai, Zhang Ying, **Zhou Xiaobing**, He Chune, Zhang Fusuo. Nitrogen deposition and its ecological impact in China: An overview. *Environmental Pollution*, 2011, 159, 2251-2264 (**All the co-authors contributed equally to this work, IF=3.7**).
4. **Zhou Xiaobing**, Zhang Yuanming, Alison Downing. Non-linear response of microbial activity across a gradient of nitrogen addition to a soil from the Gurbantunggut Desert, northwestern China. *Soil Biology and Biochemistry*, 2012, 47, 67-77 (**IF=3.6**).
5. **Zhou Xiaobing**, Zhang Yuanming. Temporal dynamics of soil oxidative enzyme activity across a simulated gradient of nitrogen deposition in the Gurbantunggut Desert, Northwestern China. *Geoderma*, 2014, 213, 261-267 (**IF=2.4**).

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6. **Zhou Xiaobing**, Zhang Yuanming, Seasonal pattern of soil respiration and gradual changing effects of nitrogen addition in a soil of the Gurbantunggut Desert, Northwestern China. *Atmospheric Environment*, 2014, 48(3),187-194 (**IF=3.1**).
 7. **Zhou Xiaobing**, Zhang Yuanming, Season and nitrogen effects on activities of three hydrolytic enzymes in soils of Gurbantunggut Desert, Northwest China. *Communications in Soil Science and Plant Analysis*, 2014, DOI:10.1080/00103624.2014.907916 (**IF=0.4**).
 8. Zhang Jing, Zhang Yuanming, Alison Downing, Cheng Junhui, **Zhou Xiaobing**, Zhang Bingchang. The influence of biological soil crusts on dew deposition in Gurbantunggut Desert, Northwestern China. *Journal of Hydrology*, 2009, 379, 220–228 (**IF=2.9**).
 9. **Zhou Xiaobing**, Zhang Yuanming. Review on the ecological effects of N deposition in arid and semi-arid areas. *Acta Ecologica Sinica*, 2009, 29: 3835–3845.(In Chinese with English abstract)
 10. **Zhou Xiaobing**, Zhang Yuanming, Wang Shasha, Zhang Bingchang. Combined effects of simulated nitrogen deposition and drought stress on growth and photosynthetic physiological responses of two annual desert plants in Junggar Basin, China. *Chinese Journal of Plant Ecology*, 2010, 34, 1394–1403. (In Chinese with English abstract)
 11. **Zhou Xiaobing**, Zhang Yuanming, Wang Shasha, Zhang Bingchang, Zhang Jing. Effect of nitrogen input on growth and photosynthetic physiology of three desert species seedlings. *Journal of Desert Research*, 2011, 31. 82–89. (In Chinese with English abstract)
 12. **Zhou Xiaobing**, Zhang Yuanming, Tao Ye, Zhang Bingchang. Responses of soil enzyme activities and microbial biomass N to simulated N deposition in Gurbantunggut Desert. *Acta Ecologica Sinica*, 2011, 31, 3340-3349. (In Chinese with English abstract)
 13. Zhang Jing, Zhang Yuanming, **Zhou Xiaobing**, Zhang Bingchang, Wei meili. The influence of biological soil crusts on dew deposition and characteristics of soil surface in GurbantunggutDesert. *Acta Ecologica Sinica*, 2009, 29: 6600–6608. (In Chinese with English abstract)
 14. Tao Ye, Zhang Yuanming, **Zhou Xiaobing**, Cheng Junhui. Allocation and Estimation of Organ Biomass of *Eremurus iberiensis*, an Ephemeroid Plant. *Arid Zone Research*, 2012,

29: 93-100. (In Chinese with English abstract)